Atty. Docket No.: 30287-110 Express Mail Label No.: EV292299615US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicat	ion of:)
	John SANTHOFF et al.)
Serial No.:	To be assigned)
Filed:	November 25, 2003)
For:	BRIDGED ULTRA-WIDEBAND COMMUNICATION METHOD AND APPARATUS))))

San Diego, California November 25, 2003

MAIL STOP PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.56, Applicants make the documents listed on the enclosed form PTO/SB/08 (submitted in duplicate) of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this correspondence, and anything being referred to as enclosed herein, is being deposited with the United States Postal Service via Express Mail Post Office to Addressee Label No. EV292299615US, with sufficient postage in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Date: November 25, 2003

By: Milesony Durch

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Copies of the foreign patent document and non-patent literature listed on the enclosed form PTO/SB/08 are enclosed.

Copies of the U.S. patents and U.S. patent application publications listed on the enclosed form PTO/SB/08 are not enclosed, in accordance with the waiver of the requirement of 37 C.F.R. § 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 that appears in the Official Gazette Notice (Week No. 31) dated August 5, 2003 and entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003".

It is respectfully requested that the documents listed on the enclosed form PTO/SB/08 be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent which may issue on this application. It is also respectfully requested that a copy of the enclosed form PTO/SB/08, as considered and initialed by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

1916357

This Information Disclosure Statement is filed within three months of the filing date of the above-identified application, pursuant to 37 C.F.R. 1.97(b). Therefore, it is believed that no fee is required in connection with this submission. In the event that a fee is required, please charge our Deposit Account No. 50-2298, in the name of Luce, Forward, Hamilton & Scripps LLP.

Respectfully submitted,

11. 23 02

Date

Peter R. Martinez, Reg No. 42,845

Attorney for Applicant(s)

c/o LUCE, FORWARD, HAMILTON & SCRIPPS LLP

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 4 Sheet

Compl te if Known				
Application Number	To be assigned			
Filing Date	November 25, 2003			
First Named Inventor	John SANTHOFF et al.			
Art Unit	To be assigned			
Examiner Name	To be assigned			
Attorney Docket Number	30287-110			

			U.S. PATI	ENT DOCUMENTS	
Examiner Initials		Document Number Number - Kind Code ² (if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 3,678,204	07/18/1972	HARMUTH	
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]	US- 5,768,700	06/16/1998	KARDONTCHIK	

		FOR	EIGN PATENT D	OCUMENTS		
Examiner Initials	Cite No. ¹	Foreign Patent Document Country Code 3 "Number 4" - Kind Code 5" (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т6
		WO 01/93434 A2	12/06/2001	Martin ROFHEART et al.		

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Applicant bocuments at www.uspto.gov or MPEP 901.04.

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Complete if Known Substitute for form 1449A/PTO To be assigned **Application Number** INFORMATION DISCLOSURE November 25, 2003 Filing Date STATEMENT BY APPLICANT John SANTHOFF et al. **First Named Inventor** Art_Unit To be assigned (use as many sheets as necessary) To be assigned **Examiner Name** Attorney Docket Number Sheet of 4 30287-110

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	US- 6,054,889	04/25/2000	KOBAYASHI	
	US- 6,061,551	05/09/2000	SORRELLS ET AL.	
	US- 6,078,277	06/20/2000	CHENG ET AL.	
	 US- 6,087,871	07/11/2000	KARDO-SYSSOEV ET AL.	
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	US- 6,178,217 B1	01/23/2001	DEFRIES ET AL.	
	US- 6,281,822 B1	08/28/2001	PARK	
	 US- 6.351.652 B1	02/26/2002	FINN ET AL.	
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	 US- 2001/0019313A1	09/02/2001	TAKAHASHI FT AL	

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Compl te if Known Substitute for form 1449A/PTO To be assigned **Application Number** INFORMATION DISCLOSURE November 25, 2003 **Filing Date** John SANTHOFF et al. STATEMENT BY APPLICANT **First Named Inventor Art Unit** To be assigned (use as many sheets as necessary) **Examiner Name** To be assigned Attorney Docket Number of 4 Sheet 30287-110

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		US- 2003/0048212A1	03/13/2003	Libove et al.	
		us-2003/0161382 A1	08/28/2003	Hershey et al.	
		us- 5,793,413	08/11/1998	Hylton et al.	
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INFORMATION DISCLOSURE				Filing Date	November 25, 2003	
STATEMENT BY APPLICANT			DDI ICANT	First Named Inventor	John SANTHOFF et al.	
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	(use as many shee	ts a	s necessary)	Examiner Name	To be assigned	
Sheet	4	of	4	Attorney Docket Number	30287-110	_

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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	
Examiner Initials	Cite No. ¹	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue  number(s), publisher, city and/or country where published.	-
		FERNANDO RAMIREZ-MIRELES, "On Performance of Ultra Wideband Signals in Gaussian Noise and Dense Multipath," Paper 99C265, Accepted for Publication in the IEEE Transactions on Vehicular Technology, Pages 1-9.	
		FERNANDO RAMIREZ-MIRELES et al., "N-Orthogonal Time-Shift-Modulated Codes for Impulse Radio, " Communication Sciences Institute, Department of Electrical Engineering-Systems, University of Southern California, Los Angeles, CA 90089-2565 USA, Pages 1-4.	
		HENNING F. HARMUTH, "Frequency-Sharing and Spread-Spectrum Transmission with Large Relative Bandwidth," IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-20, No. 1, February 1978, Pages 232-239.	
.,,,,,,		HENNING F. HARMUTH, "Applications of Walsh functions in communications," IEEE Spectrum, November 1969, Pages 82-91.	
		AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Integrated, Low-Power, Ultra-Wideband Tranceivers for Distributed Position Location and Communication," Technical Abstracts of Proposal to Defense Advanced Research Projects Agency (DARPA), Part I - Technical Proposal, 1998, Pages 1-52.	
		AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Low-Power, Miniature, Distributed Position Location and Communication Devices Using Ultra-Wideband, Nonsinusoidal Communication Technology," Semi-Annual Technical Report Prepared for: ARPA/FBI, July 1995, Pages 1-40.	
		HENNING F. HARMUTH, "Fundamental Limits for Radio Signals with Large Bandwidth", IEEE Transactions on Electromagnetic Compatibility, February 1981, Vol. EMC-23, No. 1, Pages 37-43.	
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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 4 Sheet

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Sheet of 4

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Sheet 4

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OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher. city and/or country where published.	1		
		FERNANDO RAMIREZ-MIRELES, "On Performance of Ultra Wideband Signals in Gaussian Noise and Dense Multipath," Paper 99C265, Accepted for Publication in the IEEE Transactions on Vehicular Technology, Pages 1-9.			
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		HENNING F. HARMUTH, "Frequency-Sharing and Spread-Spectrum Transmission with Large Relative Bandwidth," IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-20, No. 1, February 1978, Pages 232-239.			
		HENNING F. HARMUTH, "Applications of Walsh functions in communications," IEEE Spectrum, November 1969, Pages 82-91.			
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	Examiner	Date	
l	Signature	Considered	

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